

Applicant : Robert A. Kerr II
Appl. No. : 10/636,164
Examiner : John A. Jeffery
Docket No. : 13357.4002

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

1. (currently amended) A system for collecting and transmitting medical and health-related data of at least one user from a pre-existing measuring device adapted to measure at least one physiological attribute of a user, the measuring device comprising a digital display adapted to display the physiological attribute measurement of the user and a processor adapted to output a first signal to the digital display, wherein the first signal is related to the physiological attribute of the user, over the Internet a network to a remote system communicatively coupled to the network, the system for collecting and transmitting medical and health-related data comprising:

~~a pre-existing measuring device adapted to measure at least one physiological attribute of a user, comprising:~~

~~a digital display adapted to display the physiological attribute measurement of the user; and~~

~~a processor adapted to output a first signal to the digital display, wherein the first signal is related to the physiological attribute measurement of the user;~~

~~an integration system adapted to acquire the first signal from the pre-existing measuring device such that the first signal is not degraded causing the digital display to read an incorrect value, and adapted to convert the first signal into a second signal for wireless transmission over a the network; and~~

~~a communications system adapted to wirelessly transmit the second signal over the network to the remote system; and~~

~~a remote system communicatively coupled to the network and adapted to receive the second signal~~

wherein the integration system and communications system are pre-configured such that user operation of the measuring device causes the integration system to acquire and convert the first signal and the communications system to transmit the second signal to the remote system without further action by the user.

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2. (original) The system of claim 1, wherein the integration system is coupled to the measuring device in parallel with the processor and the display.

3. (original) The system of claim 1, wherein the integration system is coupled to the measuring device in series with the processor and the display.

4. (original) The system of claim 1, wherein the integration system is adapted to add a unique device identifier to the second signal, the device identifier uniquely identifying the measuring device.

5. (original) The system of claim 1, wherein the integration system includes a second display for visually representing the physiological attribute as indicated by the first signal.

6. (original) The system of claim 1, wherein the second signal is a text string.

7. (currently amended) The system of claim 4~~1~~, wherein the communications system is adapted to encode the second signal for transmission over the network.

8. (canceled)

9. (currently amended) The system of claim 8 ~~1~~, wherein the integration system adds a unique user identifier to the second signal, ~~and wherein the computer system extracts the user identifier from the encoded second signal and populates the database with the user identifier.~~

10. (original) The system of claim 1, wherein the measuring device is a weight scale.

Claims 11-20 (canceled).

21. (currently amended) The system of claim 1, wherein the communications system is adapted to receive a receipt message wirelessly transmitted from the remote system ~~remote system wirelessly transmits a receipt message to the communications system after it~~ the remote system receives the second signal.

22. (original) The system of claim 1, wherein the integration system and the communications system are built on a same second processor.

23. (original) The system of claim 1, further comprising a web-based portal adapted to allow users to access the data over the network.

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24. (currently amended) A method for collecting medical and health-related data representing at least one physiological attribute of at least one user and transmitting the data over a network, comprising:

measuring a physiological attribute of a user with a pre-existing device comprising a processor and a digital display;

sending a first output signal relating to the physiological attribute from the processor to the digital display;

acquiring the first signal from the pre-existing device with an integration system such that the first signal is not degraded causing the digital display to read an incorrect value;

converting the first signal for wireless transmission over a the network to a remote system; and

wirelessly transmitting the data over the network to the remote system;

wherein the measuring step causes the acquiring, converting and transmitting steps without further action by the user.

25. (currently amended) The ~~system~~ method of claim 24, wherein the acquiring step acquires the first signal in parallel with the processor and the digital display.

26. (currently amended) The ~~system~~ method of claim 24, wherein the acquiring step acquires the first signal in series with the processor and the digital display.

27. (original) The method of claim 24, further comprising the step of storing the data in the remote system.

28. (original) The method of claim 27, wherein the converting step encodes the physiological attribute, as represented by the electrical signal, into a text string.

29. (original) The method of claim 28, wherein the converting step further adds a unique user identifier and device identifier to the text string, the user identifier corresponding to the user who was measured by the measuring device and the device identifier corresponding to the measuring device.

30. (original) The method of claim 27, wherein the remote system returns a receipt message after it receives the data.

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31. (original) The method of claim 24, wherein the measuring device is a weight scale.

32.-38. (canceled).

39. (original) The method of claim 24, wherein the transmitting step is accomplished by sending the data using two-way pager hardware for wireless transmission.

Claims 40-41 (canceled).

42. (original) The method of claim 27, further comprising the step of providing a portal for accessing the data over the network.

43. (new) A system for collecting and transmitting medical and health-related data of at least one user over a network, the system comprising:

a pre-existing measuring device adapted to measure at least one physiological attribute of a user, comprising:

a digital display adapted to display the physiological attribute measurement of the user; and

a processor adapted to output a first signal to the digital display, wherein the first signal is related to the physiological attribute measurement of the user;

an integration system adapted to acquire the first signal from the pre-existing measuring device such that the first signal is not degraded causing the digital display to read an incorrect value, and adapted to convert the first signal into a second signal for wireless transmission over a network;

a communications system adapted to wirelessly transmit the second signal over the network; and

a remote system communicatively coupled to the network and adapted to receive the second signal;

wherein the integration system is coupled to the measuring device in parallel with the processor and the display.

44. (new) The system of claim 43, wherein the integration system is adapted to add a unique device identifier to the second signal, the device identifier uniquely identifying the measuring device.

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45. (new) The system of claim 43, wherein the integration system includes a second display for visually representing the physiological attribute as indicated by the first signal.

46. (new) The system of claim 43, wherein the second signal is a text string.

47. (new) The system of claim 44, wherein the communications system is adapted to encode the second signal for transmission over the network.

48. (new) The system of claim 47, wherein the remote system comprises:
a computer system adapted to extract from the second signal the measured physiological attribute and the device identifier; and
a database;
wherein the computer system populates the database with the measured physiological attribute and device identifier.

49. (new) The system of claim 48, wherein the integration system adds a unique user identifier to the second signal, and wherein the computer system extracts the user identifier from the encoded second signal and populates the database with the user identifier.

50. (new) The system of claim 43, wherein the measuring device is a weight scale.

51. (new) The system of claim 43, wherein the remote system wirelessly transmits a receipt message to the communications system after it receives the second signal.

52. (new) The system of claim 43, wherein the integration system and the communications system are built on a same second processor.

53. (new) The system of claim 43, further comprising a web-based portal adapted to allow users to access the data over the network.

54. (new) A system for collecting and transmitting medical and health-related data of at least one user over a network, the system comprising:
a pre-existing measuring device adapted to measure at least one physiological attribute of a user, comprising:
a digital display adapted to display the physiological attribute measurement of the user; and

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a processor adapted to output a first signal to the digital display, wherein the first signal is related to the physiological attribute measurement of the user;

an integration system adapted to acquire the first signal from the pre-existing measuring device such that the first signal is not degraded causing the digital display to read an incorrect value, and adapted to convert the first signal into a second signal for wireless transmission over a network;

a communications system adapted to wirelessly transmit the second signal over the network; and

a remote system communicatively coupled to the network and adapted to receive the second signal;

wherein the integration system is coupled to the measuring device in parallel with the processor and the display.

55. (new) The system of claim 54, wherein the integration system is adapted to add a unique device identifier to the second signal, the device identifier uniquely identifying the measuring device.

56. (new) The system of claim 54, wherein the integration system includes a second display for visually representing the physiological attribute as indicated by the first signal.

57. (new) The system of claim 54, wherein the second signal is a text string.

58. (new) The system of claim 55, wherein the communications system is adapted to encode the second signal for transmission over the network.

59. (new) The system of claim 58, wherein the remote system comprises:

a computer system adapted to extract from the second signal the measured physiological attribute and the device identifier; and

a database;

wherein the computer system populates the database with the measured physiological attribute and device identifier.

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60. (new) The system of claim 59, wherein the integration system adds a unique user identifier to the second signal, and wherein the computer system extracts the user identifier from the encoded second signal and populates the database with the user identifier.

61. (new) The system of claim 54, wherein the measuring device is a weight scale.

62. (new) The system of claim 54, wherein the remote system wirelessly transmits a receipt message to the communications system after it receives the second signal.

63. (new) The system of claim 54, wherein the integration system and the communications system are built on a same second processor.

64. (new) The system of claim 54, further comprising a web-based portal adapted to allow users to access the data over the network.

65. (new) A method for collecting medical and health-related data representing at least one physiological attribute of at least one user and transmitting the data over a network, comprising:

measuring a physiological attribute of a user with a pre-existing device comprising a processor and a digital display;

sending a first output signal relating to the physiological attribute from the processor to the digital display;

acquiring the first signal from the pre-existing device with an integration system such that the first signal is not degraded causing the digital display to read an incorrect value;

converting the first signal for wireless transmission over the network to a remote system; and

wirelessly transmitting the data over the network to the remote system;

wherein the acquiring step acquires the first signal in parallel with the processor and the digital display.

66. (new) The method of claim 65, further comprising the step of storing the data in the remote system.

67. (new) The method of claim 66, wherein the converting step encodes the physiological attribute, as represented by the electrical signal, into a text string.

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68. (new) The method of claim 67, wherein the converting step further adds a unique user identifier and device identifier to the text string, the user identifier corresponding to the user who was measured by the measuring device and the device identifier corresponding to the measuring device.

69. (new) The method of claim 66, wherein the remote system returns a receipt message after it receives the data.

70. (new) The method of claim 65, wherein the measuring device is a weight scale.

71. (new) The method of claim 65, wherein the transmitting step is accomplished by sending the data using two-way pager hardware for wireless transmission.

72. (new) The method of claim 66, further comprising the step of providing a portal for accessing the data over the network.

73. (new) A method for collecting medical and health-related data representing at least one physiological attribute of at least one user and transmitting the data over a network, comprising:

measuring a physiological attribute of a user with a pre-existing device comprising a processor and a digital display;

sending a first output signal relating to the physiological attribute from the processor to the digital display;

acquiring the first signal from the pre-existing device with an integration system such that the first signal is not degraded causing the digital display to read an incorrect value;

converting the first signal for wireless transmission over the network to a remote system; and

wirelessly transmitting the data over the network to the remote system;

wherein the acquiring step acquires the first signal in series with the processor and the digital display.

74. (new) The method of claim 73, further comprising the step of storing the data in the remote system.

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75. (new) The method of claim 74, wherein the converting step encodes the physiological attribute, as represented by the electrical signal, into a text string.

76. (new) The method of claim 75, wherein the converting step further adds a unique user identifier and device identifier to the text string, the user identifier corresponding to the user who was measured by the measuring device and the device identifier corresponding to the measuring device.

77. (new) The method of claim 74, wherein the remote system returns a receipt message after it receives the data.

78. (new) The method of claim 73, wherein the measuring device is a weight scale.

79. (new) The method of claim 73, wherein the transmitting step is accomplished by sending the data using two-way pager hardware for wireless transmission.

80. (new) The method of claim 74, further comprising the step of providing a portal for accessing the data over the network.

81. (new) The system of claim 1, wherein the integration system is coupled to the processor using a first coupling, and the digital display is coupled to the processor using a second coupling.

82. (new) The system of claim 1, wherein the integration taps into a coupling between the processor and the digital display.

83. (new) The method of claim 24, wherein the acquiring step acquires the first signal using a first coupling between the processor and the integration system, and wherein a second coupling couples the processor to the digital display.

84. (new) The method of claim 24, wherein the acquiring step acquires the first signal using a tap into a coupling between the processor and the digital display.

85. (new) The system of claim 1, wherein the communications system comprises two-way pager hardware for wireless transmission of the second signal over the network.

86. (new) The system of claim 43, wherein the communications system comprises two-way pager hardware for wireless transmission of the second signal over the network.

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87. (new) The system of claim 54, wherein the communications system comprises two-way pager hardware for wireless transmission of the second signal over the network.